			UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov	
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/783,331	02/20/2004	Kenneth P. Blackmon	COS 818 / DC 1172	6888
75	590 03/24/2005		EXAM	INER
David J. Alexander			CHOI, LING SIU	
Fina Technology, Inc. P.O. Box 674411			ART UNIT	PAPER NUMBER
Houston, TX 77267-4411			1713	
			DATE MAILED: 03/24/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/783,331	BLACKMON ET AL.
Office Action Summary	Examiner	Art Unit
	Ling-Siu Choi	1713
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, however, may a n. a reply within the statutory minimum of thi eriod will apply and will expire SIX (6) MO tatute, cause the application to become A	reply be timely filed inty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on _		
	This action is non-final.	
3) Since this application is in condition for allo	•	•
closed in accordance with the practice und	iel Ex parte Quayle, 1955 C.I	J. 11, 453 O.G. 213.
Disposition of Claims		and the second
 4) Claim(s) <u>1-19</u> is/are pending in the applicate 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) <u>1-19</u> is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction are su	drawn from consideration.	
Application Papers		· · · · ·
 9) The specification is objected to by the Example 10) The drawing(s) filed on <u>20 February 2004</u> is Applicant may not request that any objection to Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the 	s/are: a) accepted or b) accepted or b) accepted or b) at the drawing(s) be held in abeya meetion is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the priority application from the International Bur * See the attached detailed Office action for a 	nents have been received. Dents have been received in A Deriority documents have beer reau (PCT Rule 17.2(a)).	Application No a received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/ Paper No(s)/Mail Date	Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152)

Application/Control Number: 10/783,331 Art Unit: 1713

DETAILED ACTION

1. Claims 1-19 are now pending, wherein claims 1-11 are drawn to a method to prepare a stereo regular polypropylene; claims 12-19 are drawn to a method to prepare high-melt-flow-index polypropylene in the presence of a Ziegler catalyst.

Claim Objections

2. Claims 1-19 are objected to because of the following informalities: claim 1, line 13,

"aluminum silicon" is suggested to be changed to -aluminum / silicon--.

Appropriate correction is required.

Claim Rejections - 35 USC §102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

4. Claims 1-19 are rejected under 35 U.S.C. 102(a) as being anticipated by Blackmon et al. (US 6,657,025 B2).

Application/Control Number: 10/783,331 Art Unit: 1713

An	nethod to prepare a stereo regular polypropylene			
a	providing a polymerization reactor under temperature and pressure conditions for polymerizing propylene			
b	supplying a monomer stream containing propylene to the reactor			
c	incorporating into the propylene monomer stream			
	a titanium-based supported Ziegler-Natta catalyst having an internal electron donor			
	wherein a titanium content ≥ 1.7 wt%			
d	supplying to the propylene monomer stream			
	a cocatalyst comprising trialkylaluminum			
	wherein molar ratio of aluminum/titanium is in the range of 50-500			
e	supplying to the propylene monomer stream			
	a silicon-based external electron donor			
	wherein the molar ratio of aluminum/silicon is in the range of 10-500			
f	recovering polymer fluff which has			
	a melt flow rate $\geq 200 \text{ gm}/10 \text{ min and}$			
	a xylene soluble $\leq 4 \text{ wt}\%$			

(summary of claim 1)

<u>Blackmon et al.</u> disclose a method to prepare polypropylene, the method comprising polymerizing propylene in the presence of a Ziegler-Natta catalyst component, an organoaluminum (TEAL), an external donor (CMDS, CPDS, or DIDS), and hydrogen, wherein the Ziegler-Natta catalyst component comprises a titanium compound, a magnesium compound, and diether internal donor (abstract; Examples 1-5; claim 1). Blackmon et al. further disclose that the Ziegler-Natta cattalyst component contains approximately 2.8 % titanium (col. 6, lines 58-60); the molar ratio of Al / Ti is 172.41 (Tabe 1 - Al / Ti = 1.0 mmol/ [(10 mg x 2.8%) / 47.867]; the molar ratio of Al / Si is 10 or 50 (Table 1); hydrogen levels is varied from 0.09 to 0.45 mol% Application/Control Number: 10/783,331 Art Unit: 1713

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(col. 6, lines 64-65). Blackmon et al. furthermore disclose the polypropylene has a melt flow of at least about 300 g/10 min and **a xylene solubles of not more than about 3.5 wt%** (claim 1). Thus, the present claims are anticipated by the disclosure of Blackmon et al.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reach on 571-272-1114.

Lis Chi

LING-SUI CHOI PRIMARY EXAMINER

March 15, 2005